

## Plant functional groups mediate drought resistance and recovery in a multi-site grassland

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<b>Identifiers</b>	(all files)
CP	community productivity ( $\text{g m}^{-2}$ ); first plant biomass cut 2014, i.e. values not affected by precipitation exclusion treatment
plot	plot 1 - 6
site	BBR = Bister-Breite; BCH = Bister-Chumme; CAS = Casserio; KRA = Krauchtal; NEG = Negrentino; SOM = Somazzo; THU = Thun; ZOL = Zollikofen
time	sample date; 1 = beginning of drought; 2 = end of drought; 3 = two months post-rewetting; 4 = ten months post-rewetting
TRT	treatment; DRY = precipitation exclusion; AMB = ambient precipitation
<b>Plant Variables</b>	(file: Mackie_Drought_Legacy_Plant.csv)
biomass_plant	total plant biomass ( $\text{g m}^{-2}$ )
grass	grass biomass ( $\text{g m}^{-2}$ )
legu_forb	biomass of leguminous forbs ( $\text{g m}^{-2}$ )
nonlegu_forb	biomass of non-leguminous forbs ( $\text{g m}^{-2}$ )
NUE	nitrogen use efficiency
plant_CN	plant carbon:nitrogen ratio
plant_N	plant nitrogen content (%)
total_forb	total forb biomass ( $\text{g m}^{-2}$ )
<b>Soil Microbial Variables</b>	(file: Mackie_Drought_Legacy_Soil_Microorganisms.csv)
AMF_NFLA	arbuscular mycorrhiza NLFAs ( $\text{nmol NLFA g}^{-1}$ dry matter)
bacteria	total bacteria PLFAs ( $\text{nmol PLFA g}^{-1}$ dry matter); includes gram-positive and gram-negative bacteria PLFAs and PLFA marker 16:1 $\omega$ 7
fbratio	saprotrophic fungi:bacteria ratio based on PLFA data
gram_neg	gram-negative bacteria PLFAs ( $\text{nmol PLFA g}^{-1}$ dry matter)
gram_pos	gram-positive bacteria PLFAs ( $\text{nmol PLFA g}^{-1}$ dry matter)
gsmA	gravimetric soil moisture content (%) at 5 - 20 cm soil depth
gsmB	gravimetric soil moisture content (%) at 25 - 40 cm soil depth
gsmC	gravimetric soil moisture content (%) at 45 - 60 cm soil depth
micro	total phospholipid fatty acids (PLFA) of soil microorganisms ( $\text{nmol PLFA g}^{-1}$ dry matter)
nonspecific	nonspecific bacteria and fungi ( $\text{nmol PLFA g}^{-1}$ dry matter); includes PLFA marker 16:1 $\omega$ 7 and PLFA marker 16:1 $\omega$ 5
SF	saprotrophic fungi PLFAs ( $\text{nmol PLFA g}^{-1}$ dry matter)
<b>Soil Nitrogen Variables</b>	(file: Mackie_Drought_Legacy_Soil_Nitrogen.csv)
interval	measuring period; a = one month post-rewetting; b = two to three months post-rewetting
N	total soil nitrogen; for interval a ( $\mu\text{g } 10\text{ cm}^{-2} \text{ } 28\text{ dy}^{-1}$ ), for interval b ( $\mu\text{g } 10\text{ cm}^{-2} \text{ } 54\text{ dy}^{-1}$ )

NH <sub>4</sub>	soil ammonium; for interval a ( $\mu\text{ g } 10\text{ cm}^{-2}\text{ } 28\text{ dy}^{-1}$ ), for interval b ( $\mu\text{ g } 10\text{ cm}^{-2}\text{ } 54\text{ dy}^{-1}$ )
NO <sub>3</sub>	soil nitrate; for interval a ( $\mu\text{ g } 10\text{ cm}^{-2}\text{ } 28\text{ dy}^{-1}$ ), for interval b ( $\mu\text{ g } 10\text{ cm}^{-2}\text{ } 54\text{ dy}^{-1}$ )